

ABSTRACT

[0152] Improved polymer matrices which incorporate fluorescent biosensor molecules as well as methods of making and using these polymer matrices are described. Such matrices can be used in fluorescent biosensors and biosensor systems, including those which are used in the detection of polyhydroxylated analytes such as glucose. The properties of the polymer matrices of the invention renders biosensors utilizing such matrices particularly well-suited for detecting and measuring *in-vivo* glucose concentrations.

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